

**METHOD AND DEVICE FOR PROCESSING PICTURE**

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**Abstract**

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**PURPOSE:**To attain a picture processing method coping flexibly with a characteristic of input and output pictures when an optimum picture is obtained by using an arithmetic equation and to process the input and output pictures of diversified kinds at a low cost without increasing the circuit scale of an arithmetic means and a storage means.

**CONSTITUTION:**Picture data are received by a 1st multiplier 2, a 1st subtractor 5 and a 1st adder 6. A constant generator 1 generates constants  $a_1$ ,  $a_2$ ,  $a_3$  and they are respectively fed to the 1st multiplier 2, the 1st subtractor 5 and the 1st adder 6. The 1st multiplier 2 provides an output of a product  $a_1 \cdot X$ . The 1st subtractor 5 provides a difference  $(X - a_2)$  and the 1st adder 6 provides an output of sum  $(X + a_3)$ . A 2nd multiplier 3 provides an output of product  $a_1 \cdot X \cdot (X - a_2)$ . A divider 4 provides an output of quotient  $a_1 \cdot X \cdot (X - a_2) / (X + a_3)$ . A 2nd adder 7 provides an output of operated data  $Y_1 (= X + a_1 \cdot X \cdot (X - a_2) / (X + a_3))$ .

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